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Record

Feb. 17, 2000

Volume 24 No. 20



Washington University in St. Louis



Students help shape national proposals

When officers of the National Association of Graduate-Professional Students (NAGPS) arrived in Washington, D.C., this past weekend, Feb. 11-12, to lobby for legislative initiatives among members of Congress, they took with them a platform crafted in part by students from Washington University.

Holly Williams from the School of Architecture, president of the Graduate-Professional Council (GPC) representing all eight schools at the University, was part of a NAGPS conference that wrote the group's 2000 legislative platform. Also at the conference, held in Columbus,

Ohio, in November, were Shelly Schrappen of Arts & Sciences' Graduate Student Senate and Malaina Brown, a graduate student in Arts & Sciences now on leave from the University. Brown is a member of the NAGPS national board.

The platform sets forth an ambitious legislative agenda, including proposals for:

- Increased federal funding for graduate fellowships, which have diminished in number dramatically since the 1970s;
- Expanded tax deductions for interest paid on student loans, raising the income ceiling for

See **Proposals**, Page 6

'Coin of the realm'

Equation named for George Zahalak

By TONY FITZPATRICK

George I. Zahalak, Eng.ScD., professor of mechanical engineering and biomedical engineering, has received a singular honor: A fundamental equation in the molecular theory of muscle contraction has been named the "Huxley-Zahalak Equation," for him and Sir Andrew Fielding Huxley.

Authors Marcello Epstein and Walter Herzog named the equation for Huxley and Zahalak in their book, "Theoretical Models of Skeletal Muscle: Biological and Mathematical Considerations," published by John Wiley and Sons, New York.

Huxley shared a Nobel Prize in Physiology and Medicine in 1963 for work he did with collaborators

on the transmission of neural signals. According to Zahalak, Huxley is perhaps best known in biomedical and engineering sciences for the Hodgkin-Huxley Equations, which made possible a detailed quantitative understanding of neural conduction based on sound biophysical data.

"For the last 40 years, Huxley has concentrated on the molecular mechanisms of muscle contraction and published a first version of his mathematical theory in a now-classic paper in 1957," Zahalak said. "That paper contained a simplified version of what Epstein and Herzog have dubbed the 'Huxley-Zahalak Equation.' That version is valid only for steady-state conditions, whereas the equation to which

See **Zahalak**, Page 7



Speaking freely Award-winning documentarist Charles Guggenheim (right) makes a point in a panel discussion Thursday, Feb. 10, during a campus forum on the First Amendment, which brought nationally known journalist-alumni back to the University. Other panelists were (from left) Ken Cooper (A&S '77) and Maralee Schwartz (A&S '74), both of the Washington Post; Michael Isikoff (A&S '74) of Newsweek; and Tom Baxter (A&S '71) of the Atlanta Journal-Constitution. In keynote addresses at the forum, Guggenheim presented a new documentary film, "The First Freedom," which he produced for the Newseum in Arlington, Va.; and Isikoff discussed the way his undergraduate experience helped shape his commitment to First Amendment values.

Fugitive in 1970 anti-war protest surfaces

Howard Mechanic, a former student who jumped bail nearly three decades ago to avoid a prison sentence related to the May 1970 burning of the Air Force ROTC building on the Washington University campus, has surfaced in Scottsdale, Ariz. He surrendered to federal authorities Friday, Feb. 11.

Arizona newspapers began reporting last week that a long-time Scottsdale community activist and city council candidate was in fact Mechanic, a 1970 Washington University graduate who had been living under an assumed name for decades.

Mechanic was among a crowd of roughly 5,000 protestors who

assembled in the Brookings Quadrangle May 4, 1970, to protest the shooting that morning of four anti-war student protestors at Kent State University in Ohio. The rally culminated just after midnight May 5 with the burning of the ROTC building.

One of several persons charged with crimes related to the incident, Mechanic was accused of throwing cherry bombs at police officers and fire fighters. On Oct. 22, 1970, he became the first person found guilty under a 1968 federal anti-riot law. Mechanic disappeared in May 1972 shortly before he was scheduled to begin a five-year prison sentence.

Mechanic has apparently been living in Arizona since 1976 under the name Gary Tredway. He has worked for liberal causes, including election reform and environmental protection. He owns an apartment complex and runs a successful herbal food company.

It was his community involvement that eventually exposed him: in the Scottsdale City Council race, media scrutiny of his resumé and credentials revealed that they were fabrications.

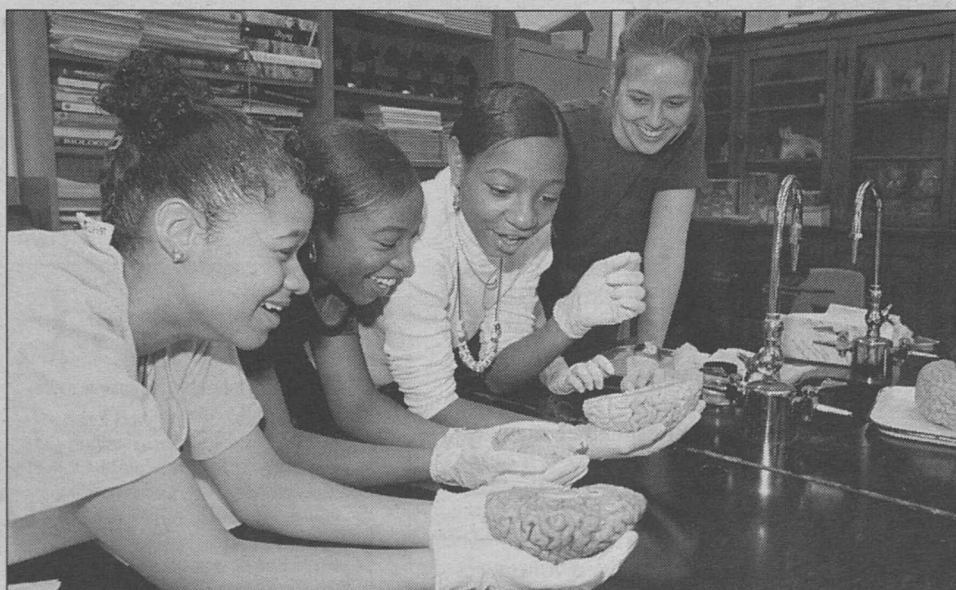
Since surfacing, Mechanic has refused to identify those who helped him remain hidden and has not said whether he met with his parents, his sister or his twin brother, Harvey.

Whiz kids Program inspires new generation of scientific researchers

By DAVID LINZEE

Kristina Vischer chalked a big X on the blackboard while Girish Putcha set out a dozen soft rubber balls. The students in this freshman biology class at Central High School of the Visual and Performing Arts in North St. Louis looked on bemused. They'd been told that these Washington University students were going to give them demonstrations about how the brain works, but they didn't know what to expect. The medical and graduate students are part of the Young Scientist Program (YSP), started in 1991 to focus, educate and inspire St. Louis City public high school students interested in science.

Vischer and Putcha called for volunteers, and a tall boy stepped up to the line and tossed the balls at the blackboard, hitting the X every time. Then Vischer took out a pair of thick, weird-looking goggles. "These are prism goggles—" "Prism goggles?" asked one



Graduate student Suzanne M. Underhill (right) and a trio of human brains provoke a lively response in (from left) Angela Scheibel, Candace Nelson and Mary Williams, students at St. Louis' Central Visual and Performing Arts High School.

wary student.

"No, prism. They bend light," Vischer said as she put them on. "See? My eyeballs are over on the side."

The kids grinned. This was getting more interesting. The boy put on a pair of goggles and started throwing way to the left of the X. Gradually, though, his aim

improved. Putcha explained to a now engaged audience that this was a demonstration of motor adaptation, the ability of the brain to override the eye in directing the muscles.

Robin Kyles, head of the biology department at the school, looked on with approval. "These kids love hands-on," he said. "You can't paper-and-pencil them. They'll have a lot of questions tomorrow."

Meanwhile, Daphne Robinson was introducing her group to the stars of the show, actual human

brains. She passed it around. "Ugh! Brain juice!" cried one girl, refusing to touch it. But a slender girl named Helena said that holding the brain was her favorite part of the class.

At morning's end, several students come over to shake hands or say thanks. One girl asked tentatively, "Can people come visit — you know, where you do science?"

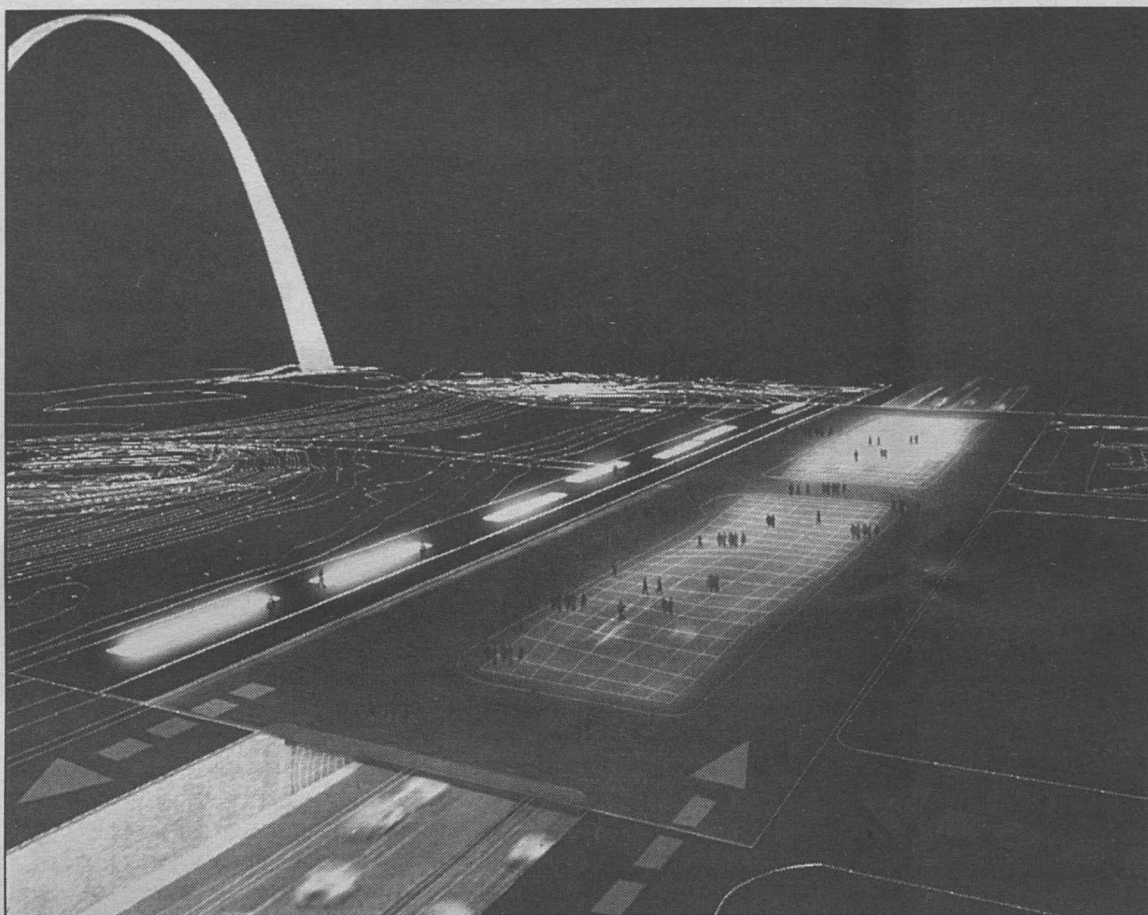
Vischer beamed at her. "You can totally come visit."

This is the whole idea, in fact. "We hope our teaching teams spark interest," said Stephanie Strand, the YSP director. "And that students will apply for Summer Focus in their junior year." Youngsters accepted into this program work with graduate student mentors in labs at the School of Medicine.

Another program component is the Mad Scientist Network, a Web site started in 1995 that uses more than 500 scientists to answer questions from around the world in fields from astronomy to

See **Young Scientists**, Page 6

Designs provide 'grand gestures' to link Arch, downtown



This detail of the winning design board in the School of Architecture's Steedman Fellowship Competition features a translucent glass surface that would cover Interstate 70, forming a pedestrian bridge to St. Louis' Gateway Arch grounds. Italian architect Fabio Oppici won the international competition.

BY ANN NICHOLSON

"Grand gestures" to link the Gateway Arch and grounds with downtown St. Louis appear in both of the top designs in the School of Architecture's biannual Steedman Competition — an Italian architect's winning proposal and the second-place design entered by a Washington University graduate student.

The winner, Fabio Oppici of Rome, was selected from 61 entrants from Europe, North and South America, Asia and Australia. Oppici will receive a \$20,000 traveling fellowship to interview and research the work of 15 leading figures in contemporary Japanese architecture.

Titled "Bridging the Gap — Architecture in the Shadow of the Arch," the Steedman 2000 Fellowship in Architecture International Design Competition called for ideas for connecting Eero Saarinen's Gateway Arch and the surrounding Jefferson National Expansion Memorial Park with St. Louis' downtown district. The proposals each addressed the Interstate 70 "trench" separating the park from the rest of downtown and offered designs for a museum of American architecture.

Oppici's winning design was selected for its new and engaging vision of the city. He proposed covering the interstate trench with a translucent glass surface allowing pedestrians to cross directly into the park from downtown St. Louis. His subterranean Museum of Architecture would surround the freeway and connect to the translucent plaza, making the freeway visible through a sculptural glass tube.

Architecture graduate student Kevin Le, who received second place in the competition, proposed a reflecting pool of water to the west of the Arch, allowing visitors to see its reflection as they approach from the city. Le also included a subterranean museum and courtyard that would allow framed views of the Arch and the city. Alumnus Eric Clough of New York was among the seven finalists in the competition. The entries of Oppici, Le and the other finalists will be exhibited at the Forum for

Contemporary Art in St. Louis Feb. 22 through March 18.

"The designs of Oppici and Le both understood the power of the structure of the Arch and did not try to challenge it vertically," noted Will Bruder, competition adviser and Arizona architect. "Their solutions complement the Arch, offering grand gestures that create a new urban landscape — both celebrating our culture and energizing the community."

"The winning scheme really sparks the imagination with its kaleidoscopic wrapping of the freeway and the new piazza linking the city with the Arch grounds."

Stephen Leet, associate professor of architecture and the competition organizer, hopes this year's theme will spur an ongoing dialogue about the Arch grounds. "The competition was about making a positive intervention in our community that would address the debilitating effect of the highway separation between the Arch grounds and downtown St. Louis," Leet said.

"The design proposals of the winner and finalists each offer possibilities for St. Louis' future at a critical time when the city is redefining its downtown."

This year marks the 75th anniversary of the Steedman Competition, which is supported by an endowment given the school in honor of James Harrison Steedman. Steedman, who received a degree in mechanical engineering from the University in 1889, was killed in active duty during World War I.

Other members of the Steedman 2000 jury were Barcelona architect Elias Torres; Reed Kroloff, editor-in-chief of Architecture Magazine; Italian architect and industrial designer Paolo Rizzatto; and New York architect Billie Tsien. In addition to Leet, the competition governing committee includes Fred Powers, committee chair and St. Louis architect; Eric Mumford, Ph.D., assistant professor of architecture; and Bill Wischmeyer, St. Louis architect, affiliate associate professor of architecture and a 1973 competition winner.

Olympic diver Greg Louganis giving lecture

Olympic diving champion Greg Louganis will discuss his life's triumphs and tribulations in an Assembly Series lecture titled "Beyond Breaking the Surface" at 11 a.m. Wednesday, Feb. 23, in Graham Chapel. The lecture, sponsored by the Congress of the South Forty, is free and open to the public, with limited seating.

Louganis began competing in the world of diving at the age of 10. By 16 he had won his first Olympic medal, a 1976 silver on the platform. At 24, he became the first man in 56 years to win two Olympic gold medals in diving by winning both the platform and springboard events. In 1986, Louganis repeated his performance with both the platform and springboard events at the World Championship. Two years later at the 1988 Olympics, competing against divers half his age and despite a near-disastrous injury during a dive, Louganis became the first man to win



Assembly Series

Who Greg Louganis

Where Graham Chapel

When 11 a.m. Feb. 23

Admission Free and open to the public (limited seating)

double gold medals for diving in two consecutive Olympics.

Altogether he has won the World Championship five times and has held a record number of National Championship titles. In 1985, he received the Sullivan Award as the nation's most outstanding amateur athlete. His most recent contribution to the Olympics has been as a broadcaster, appearing as co-host on "Good Morning America" during the 1996 Summer Olympics — a first for an openly gay athlete.

His autobiography, "Breaking the Surface," topped The New York Times Bestseller List when it

was published in 1996. Louganis later adapted the book for the television film "Breaking the Surface: The Greg Louganis Story." Both book and film

chronicle Louganis' tumultuous life: his difficult childhood, his struggles with homosexuality, his remarkable achievements in diving, and his fear and ultimate courage in dealing with HIV.

Pursuing his lifelong dream of an acting career, Louganis has starred in Broadway and Hollywood productions. He costarred in "Touch Me," a feature-length movie in 1997, and produced the autobiographical "Looking to the Light."

For more information, visit the Assembly Series Web page (<http://wupa.wustl.edu/assembly>) or call 935-5285.

News Briefs

Staff heroes

Reminder: Nominations for the 2000 Gloria W. White Distinguished Service Award are due Feb. 26. The award, which honors a staff person for exceptional service to the University, is conferred each year at the May Staff Day celebration.

Nomination forms can be completed on-line by going to the Human Resources Web site (<http://hr.wustl.edu>), clicking on "Employee Relations" and then on the award; or nominators can call 935-5990 to obtain a form. Send nominations to the Gloria W. White Distinguished Service Award, Campus Box 1184.

Updating Web site

In April, the Human Resources office will introduce the next phase of the University's HR Web site, designed to provide employees with greater access to information, new learning tools and enhanced interactive capabilities. The new site will



Campus quiz: Blind justice reigns from which Hilltop Campus perch? Answer below.

include:

- Additional reference material and policies;
- Secure access to individualized personal information and the ability to update specific information;
- Health care open-enrollment capabilities;
- Expanded benefit information, including provider directories; and
- Resource tools for managers. In March, a mailing with

individual pin numbers for security access to the site will be sent to employees. For more information, contact Justin Ford, director of Human Resources Planning, at 935-6154.

Volunteers needed

People who develop cold sores on their lips are needed for an experimental study at the School of Medicine. Volunteers, who must be 12 or older, will need to visit the medical school for treatment daily when they develop cold sores. Michael P. Heffernan, M.D., assistant professor of medicine and leader of the study, is looking for people who have three or more cold sore outbreaks a year. Medication will be provided free, and volunteers will receive payment for their visits. For more information, call Mary Tabacchi at 362-8171 or Jackie Dudley, 362-9841.

Answer: Justice, of course, graces Anheuser-Busch Hall, home of the School of Law.

Dance Marathon to benefit children

With just one rule in effect — "No sitting!" — a standing-room only crowd is anticipated for Chimes' first Dance Marathon, to be held Feb. 26-27. The 14-hour event, which will include students from Washington University, St. Louis University and Fontbonne College, will benefit the Children's Miracle Network and Cardinal Glennon and St. Louis Children's hospitals.

Hoping to raise \$15,000, University students have been engaged in a month of fundraising activities, ranging from silent auctions to donut sales to bowling parties.

In a final fund drive geared toward the University community, two local bookstores — the Washington University Campus Store in Mallinckrodt and Left Bank Books at 399 North Euclid Ave. — are donating a percentage of their profits to Dance Marathon. Left Bank Books will make a donation for purchases made Saturday, Feb. 19, while the window for Campus Store purchases is Monday, Feb. 21, through Friday, Feb. 25.

Anyone interested in making direct donations can contact Dance Marathon public relations chair Yasmin Minstry at 935-1851.

Record

Washington University community news

News & Comments

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Medical School Update

Damage mechanism for fetal alcohol explored

By JIM DRYDEN

For years, physicians and scientists have known that alcohol has detrimental effects on the human fetus. A new study from investigators in Berlin, Tokyo and St. Louis suggests how the damage associated with fetal alcohol syndrome might occur.

A paper in the Feb. 11 issue of *Science* reports that a single exposure to high levels of ethanol (the alcohol in beer, wine and spirits) can kill nerve cells in the developing brain. The researchers found that the rat brain is sensitive to this toxic effect during a brain development stage that corresponds to the brain growth spurt in humans. The brain growth spurt lasts from about the sixth month of pregnancy to a child's second birthday.

The scientists intoxicated infant rats by giving them ethanol for periods of four or more hours. This maintained the alcohol level at about twice the level that defines legal intoxication in humans. This one-time exposure caused brain cells to commit suicide by a process called apoptosis or programmed cell death. The rate of cell death exceeded the spontaneous rate of cell death by almost 30 times in some parts of the brain (spontaneous cell death removes surplus cells from the developing brain).

"For many years, scientists studying fetal alcohol syndrome have tended to expose rats to alcohol for longer periods of time rather than studying the damage more transient exposure might cause," said John W. Olney, M.D., the study's senior investigator and the John P. Feighner Professor of Neuropsychopharmacology at the School of Medicine. "We exposed the infant rats just once, keeping them intoxicated for a period of just a few hours, and we found that was sufficient to trigger considerable damage."

The paper's lead author, Chrysanthi Ikonomidou, M.D., associate professor of pediatric neurology at Humboldt University in Berlin, previously was a postdoctoral fellow in Olney's laboratory, as was another author, Masahiko J. Ishimaru, M.D., Ph.D., now based at the Tokyo Medical and Dental University.

The researchers found no evidence that exposure to small amounts of alcohol had cumulative effects on the developing brain. Rather, substantial intoxication was required before significant damage

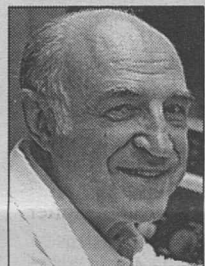
occurred. While translating effects from rats to humans is difficult, Olney believes it is unlikely that a single glass of wine would cause the damage observed in these experiments, even if expectant mothers consumed a very small amount of alcohol every day. Because it is not entirely clear how rats and humans compare in sensitivity to alcohol, however, the investigators believe it is best to avoid alcoholic drinks completely during pregnancy.

The investigators also studied the mechanism of this alcohol-induced brain cell death. It is known that alcohol can interfere with certain transmitter systems in the brain. The systems use chemical molecules, such as glutamate and GABA, to activate nerve cell receptors and transmit messages from one cell to another. In research reported last year in *Science*, Olney and colleagues found that drugs called NMDA antagonists, which interfere with glutamate transmission in the same way that alcohol does, have a similar cell-killing effect in the infant rat brain when given as a single high dose. In the current study, the investigators found that drugs that excessively activate GABA receptors, as alcohol does, also can kill nerve cells in the infant rat brain.

"Our evidence documents that alcohol acts by two mechanisms — blockade of glutamate transmission and excessive stimulation of GABA transmission. By combining these two mechanisms, it produces a compound pattern of damage that is greater than either mechanism would produce by itself," Olney said.

The death of neurons by apoptosis occurs naturally. It enables the brain to get rid of unhealthy cells or cells that are not needed for normal brain development. "But what we saw was cell death at many times the normal rate," Ikonomidou said. "And alcohol and these other drugs don't just cause cells that are going to die anyway to die more quickly. They cause cells that never would have died under normal circumstances to commit suicide — and millions are involved."

These mechanisms might contribute to the wide variety of neurological and psychiatric symptoms seen in individuals with fetal alcohol syndrome. Symptoms range from hyperactivity and learning disabilities in childhood to depression or severe psychosis in adulthood. Olney believes the variety of symptoms could be explained by the timing of alcohol exposure. In rats, he found that different populations of neurons were vulnerable at different times during the brain growth spurt.



Olney: Studied brain damage

Shoening is interim library director

Paul A. Shoening has been named interim director of the Bernard Becker Medical Library and interim associate dean for academic information management.

Mark E. Frisse, M.D., previously was the library director and associate dean. He now is vice president of Express Scripts Inc.'s clinical services, which interprets pharmacy and medical claims data. Shoening has been the library's director of information and communication systems for the past six years.

"Paul Shoening helped make the library an information and communication powerhouse," said William A. Peck, M.D.,

executive vice chancellor and dean of the School of Medicine. "His expertise in applying innovative information technologies will assist in expanding the medical school's reach and its place as an invaluable resource for the Medical Center and the St. Louis region."



Shoening: Expert in information systems

Shoening's responsibilities as director and associate dean include coordinating medical center communica-

tions networks and information management facilities and overseeing medical computing facilities. He also is extensively involved with information management systems planning throughout the medical center and with the analysis and development of biomedical information systems.

Shoening received a bachelor's degree, magna cum laude, in biology and mathematics in 1983 from St. Olaf College in Northfield, Minn. Three years later, he was awarded a master's degree in mathematics from the University of Minnesota in Minneapolis. In 1996, he received an executive M.B.A. from Washington Univer-



Honored Glenn Virgil (right), a medical school custodian, receives an award for 25 years of service to the University from William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. Virgil, who joined the University in October 1974, also received an award in 1998 for his outstanding effort and dedication. He was among 50 long-term medical school employees honored Feb. 10 at an employee appreciation luncheon and reception in the Eric P. Newman Education Center.

Medical Center links change during construction

As construction progresses at Washington University Medical Center, some temporary but significant changes to links connecting buildings will take place. Three separate areas of the link system will be affected. Steps are being taken to minimize inconveniences for employees, patients and visitors.

The Campus Integration Plan team spent several months conducting an exhaustive analysis of alternatives to find an affordable and less disruptive path. Unfortunately, it is not possible to complete the Ambulatory Care Center/Siteman Cancer Center and the McDonnell Pediatric Research Building without affecting routine use of the links. To minimize this inconvenience, a special shuttle service will transport patients between the north and south sides of campus.

Representatives from the School of Medicine and BJC Health System have been working together for several months to schedule these changes during warmer months. All detours will be marked clearly with signs, and maps will be available in future weeks.

First, on March 15, the link between the Clinical Sciences Research Building and the Eric P. Newman Education Center will close. This section of the link will be demolished and a new link constructed through the McDonnell Pediatric Research

Building. The new link is expected to open by August.

During construction of the new link, the direct indoor path from the employee shuttle depot through the Eric P. Newman Education Center to St. Louis Children's Hospital, the Clinical Sciences Research Building (CSRB) and Barnes-Jewish Hospital North will be out of service. A path through the Euclid Garage that separates pedestrians from vehicles will provide covered access to Children's Hospital, the CSRB and Barnes-Jewish Hospital North. Additional security will patrol the area at night.

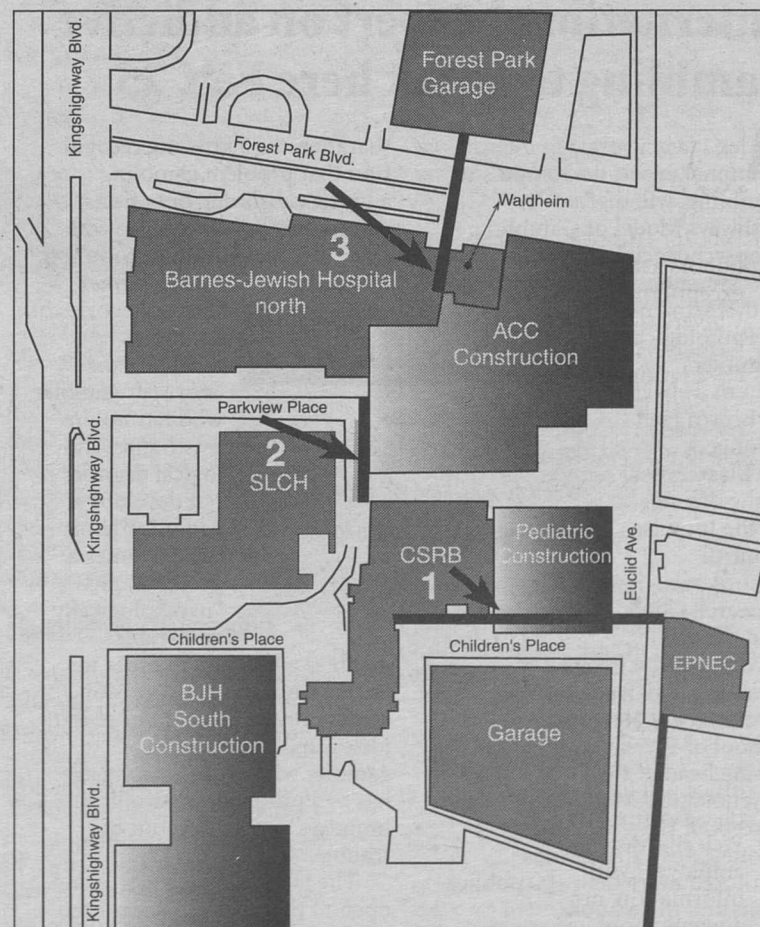
Second, the link immediately north of Children's Hospital to Barnes-Jewish Hospital North will close April 1. This section of the link currently leads into the remaining section of the old Barnes-Jewish Hospital North Garage, which must be demolished for the construction of the Ambulatory Care Center. Completion of a new permanent link is expected in November.

Beginning April 1, stairs will be built from the existing link to the sidewalk. A covered walkway also will be built from the base of the stairs to Parkview Place. Construction of this detour is expected to be completed by April 10.

From April 1 through 10, to access Barnes-Jewish Hospital North, employees will be detoured through Children's Hospital to the street level and out the valet parking return area through the Yalem Building. On April 10, the stairs and walk will provide access to Barnes-Jewish Hospital North from Children's Hospital and Barnes-Jewish Hospital South.

From April 1 through November, the temporary route will not be accessible to wheelchairs or carts. Security will install a card reader at the Yalem Building entrance, and a second closed-circuit TV camera to monitor Parkview Place. A uniformed security officer will patrol

See Links, Page 6



Construction is causing detours in the medical center's walkway system.

University Events

Race • Women in Ireland • 'Laughter of the Furies' • Magnificent Universe • Dance

"University Events" lists a portion of the activities taking place at Washington University Feb. 17-26. For a full listing of medical rounds and conferences, see the School of Medicine's Web Site at medschool.wustl.edu/events/. For an expanded Hilltop Campus calendar, go to www.wustl.edu/thisweek/thisweek.html.

Exhibitions

"Beginnings: The Taste of the Founders." Through March 19. Gallery of Art. 935-4523.

"Gestures, Words, Buildings." Through Feb. 18. Work of Adrian Luchini, assoc. prof. of architecture. Givens Hall. 935-6200.

"Island Press: Innovation at Washington University." Through March 19. Gallery of Art. 935-4523.

"Zen Paintings and Japanese Art." Through March 19. Gallery of Art. 935-4523.

Thursday, Feb. 17

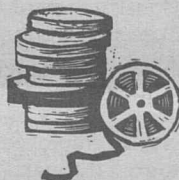
7 p.m. School of Art's "Gowns in the Gallery." Students present their couture creations. Des Lee Gallery, University Lofts, 1627 Washington Ave. 935-6470. See story on page 5.

Film

Friday, Feb. 18

7 and 9:30 p.m. Campus Y's Cultural Celebration film. "The Wedding Banquet." (Also Feb. 19, same times, and Feb. 20, 7 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Co-sponsored by Filmboard. Room 100 Brown Hall. 367-3771.

Midnight. Filmboard Feature Series. "Tie Me Up! Tie Me Down!" (Also Feb. 19, same time, and Feb. 20, 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.



Wednesday, Feb. 23

6 p.m. Chinese Film Series. "Family." Sponsored by Asian and Near Eastern Languages and Literatures dept. Room 219 Ridgley Hall. 935-5110.

Friday, Feb. 25

7 and 9:30 p.m. Filmboard Feature Series. "Mystery Men." (Also Feb. 26, same times, and Feb. 27, 7 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

International expert on addictive gambling to speak here Feb. 25

Alex Blaszczynski, an international expert on compulsive gambling, will discuss "A Pathways Model of Gambling: A Biopsychosocial Approach to the Assessment and Treatment of Pathological Gamblers" at 10 a.m. Feb. 25 in Brown Hall Lounge.

Blaszczynski is the director of the Impulse Control Disorders Research Clinic and deputy director of the Psychiatry Research and Teaching Unit at the University of New South Wales' School of Psychiatry and the acting head of the Department of Psychological Medicine at Liverpool Hospital, both in Sydney, Australia. He has authored more than 100 publications and three books.

In his most recent book, "Overcoming Compulsive Gambling," Blaszczynski contends

that there "is a growing recognition that problem gambling is not a unitary disorder, but affects several subtypes of people who share several features in common."

He defines three categories of gambling subtypes: the "normal" gambler who has no pre-existing psychological disorder but develops a gambling habit that becomes a problem; the "psychologically vulnerable"

gambler who plays in order to escape from stress, depression, anxiety or the memory of painful losses; and the "impulsive" gambler who, from a young age, has had problems controlling impulses and staying out of trouble.

The lecture, which is free and open to the public, is sponsored by the George Warren Brown School of Social Work. For more information, call 935-4909.

Social Work Lecture

Who Alex Blaszczynski

Where Brown Hall Lounge

When 10 a.m. Feb. 25

Admission Free and open to the public

Lectures

Thursday, Feb. 17

Noon-1 p.m. Genetics lecture. "Sno RNAs in Archaea." Pat Dennis, U. of British Columbia, Vancouver. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

1:10 p.m. Social work lecture. "Black and White and Beyond: Race in the 21st Century." Evelyn Hu-Dehart, prof. and chair of ethnic studies, U. of Colo.-Boulder. Brown Hall Lounge. 935-4909.

4 p.m. Anthropology Colloquium Series. "Marginality and the Rhetoric of Medicine in the Haitian Diaspora." Paul Brodwin, assoc. prof. of anthropology, Center for the Study of Bioethics, Medical College of Wis. Room 203 Eads Hall. 935-5252.

Midnight. Filmboard Feature Series. "Brazil." (Also Feb. 26, same time, and Feb. 27, 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

4 p.m. Cardiovascular research seminar. "Novel Uses of Echocardiography Intraoperative and Brachial Artery Ultrasound." Benico Barzilay, assoc. prof. of medicine. Room 801 Clinical Sciences Research Bldg. 362-8901.

4 p.m. Chemistry seminar. "Electron Transfer in Molecular Photonic Materials." Gerald J. Meyer, prof. of chemistry, Johns Hopkins U. Room 311 McMillen Lab (coffee 3:40 p.m.). 935-6530.

4 p.m. Performing Arts Department lecture. "The Theater and the Holocaust." Robert Skloot, prof. of theater and drama and of Jewish studies, U. of Wis., Madison. Women's Bldg. Lounge. 935-5858. See story on page 6.



4 p.m. Women's studies and social thought and analysis lecture. "Patterns of Time: Women and Life on the Land in the West of Ireland." Ricca Edmondson Woerner, lecturer, political science and sociology depts., National U. of Ireland, Galway. Room 102 Eads Hall. 935-5102.

4:15 p.m. Philosophy and Philosophy-Neuroscience-Psychology Colloquium Series. "The Nature of Nativism." Richard Samuels, U. of Pa. Room 216 Psychology Bldg. 935-6670.

4:30 p.m. Mathematics colloquium. "Growth of Koenigs Eigenfunctions: An Episode in the Study of Composition Operators, Recounted in Words, Pictures - Even Movies." Paul Bourdon, prof. of mathematics, Washington & Lee U., Lexington, Va. Room 199 Cupples I Hall (tea 4 p.m., Room 200). 935-6726.

5 p.m. Vision Science Seminar Series. "Complement Regulation and Intraocular Inflammation." Nalini S. Bora, research assoc. prof. of ophthalmology and visual sciences and research asst. prof. of pathology. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

7 p.m. Visual Arts & Design Center symposium. "The Innovative Print." Marilyn Kushner, curator of prints, drawings and photographs, Brooklyn Museum of Art, keynote speaker. Steinberg Aud. (reception 6:30 p.m.). 935-5490.

8 p.m. English lecture. "Laughter of the Furies: Women and Courtroom Drama in 'A Question of Silence.'" Christine Frould, prof. of English literature and visiting Hurst Prof., Northwestern U. Hurst Lounge, Room 201 Duncker Hall. 935-5190.



Friday, Feb. 18

11 a.m. Center for Mental Health Services Research Seminar Series. "The Empirical Foundations of Cognitive-behavioral Group Work and Group Therapy." Sheldon Rose, prof. of social work, U. of Wis., Madison. Room 38 Goldfarb Hall. 935-5687.

Noon. Gallery of Art's Friday Forum Luncheon Lecture Series. "Island Press: Innovation at Washington University." Mark Weil, the E. Desmond Lee Prof. for Collaboration in the Arts and dir. of the gallery, and Marianne Ellison Simmons, master printer. Cost: \$15 (includes lunch). Steinberg Hall. To register, call 935-5490.

Noon-1 p.m. Gastroenterology research conference. "Structure and Function of Intestinal Vitamin A Binding Proteins; Lessons From NMR and Knockout Mice." Ellen Li, prof. of medicine and assoc. prof. of biochemistry and molecular biophysics. Room 901 Clinical Sciences Research Bldg. 362-8951.

4 p.m. Anatomy and neurobiology seminar. "Blood Flow to Barrels." Thomas A. Woolsey, prof. of anatomy and neurobiology, of cell biology and physiology and of neurology and neurological surgery. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

4 p.m. Molecular biology and pharmacology seminar. "Regulation of Skeletal Myogenesis - Upstream and Downstream of Xenopus MyoD." Ralph Rupp, prof. of biology, U. of Tübingen, Germany. Room 3907 South Bldg. 362-2725.

7:30 p.m. St. Louis Astronomical Society lecture. "Magnificent Universe." Ken Crowell, author and astronomer. Co-sponsored by earth & planetary sciences department. Room 162 McDonnell Hall. 935-4614.

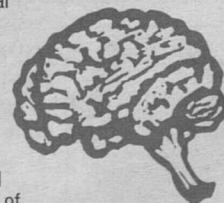
Saturday, Feb. 19

11 a.m. University College Saturday Seminar Series. "Individuality vs. Individualism in Liberal Democratic Theory." Gerald N. Izenberg, prof. of history. Co-sponsored by the Master of Liberal Arts Program. Room 162 McDonnell Hall. 935-6778.

Monday, Feb. 21

Noon-1 p.m. Molecular biology and pharmacology seminar. "New Insights Into G Protein Coupled Receptor Signaling." Kendall J. Blumer, assoc. prof. of cell biology and physiology. Room 3907 South Bldg. 362-2725.

Noon. Neurology and neurological surgery research seminar. "Presynaptic Modulation of Autaptic Currents in Hippocampal Neurons." Kelvin A. Yamada, asst. prof. of neurology and neurological surgery and of pediatrics. Schwarz Aud., First Floor Maternity Bldg. 362-7379.



4 p.m. Biology Faculty Search Candidate Seminar Series. "The Genetics and Epigenetics of Developmentally-programmed DNA Rearrangements in Tetrahymena Thermophila." Douglas L. Chalker, Fred Hutchinson Cancer Research Center. Room 322 Rebstock Hall. 935-6860.

4 p.m. Immunology Research Seminar Series. "V(D)J Recombination: Keeping the D in Diversity." Barry Sleekman, asst. prof. of pathology. Eric P. Newman Education Center. 362-2763.

4 p.m. Mathematics analysis seminar. "Characterization of Hyperbolic Complex Manifolds by Their Groups of Holomorphic Automorphisms." Alexander Isaev, Australian National U. Room 199 Cupples I Hall. 935-6726.

5:30 p.m. Radiology dept.'s Hyman R. Senturia Lecture. "Re-engineering Radiology: Lessons Learned." Jeffrey C. Weinreb, prof. and co-chair of radiology, dir. of magnetic resonance imaging, N.Y. U. School of Medicine. Scarpellino Aud., first floor, 510 S. Kingshighway Blvd. 362-2866.

7 p.m. Architecture Monday Night Lecture Series. The 2000 Fumihiko Maki Endowed Lecture. "Place, Culture, Technology, Architecture." Glenn Murcutt, architect, Sydney, Australia. Steinberg Hall Aud. (reception 6:30 p.m., Givens Hall). 935-6200.

Tuesday, Feb. 22

9 a.m. Psychiatry dept.'s Edwin F. Gildea Lecture. "Molecular Genetics of Circadian Clocks in Mammals." Joseph S. Takahashi, the Walter and Mary Elizabeth Glass Prof. in the Life Sciences, prof. of neurology and Howard Hughes Medical Inst. Investigator, Northwestern U. Clopton Aud., 4950 Children's Place. 747-2680.



Noon. Molecular basis of cancer seminar. "Retroviruses and Cancer." Lee Ratner, prof. of medicine and of molecular microbiology. Brown Room, first floor, Barnes-Jewish Hosp. North. 362-8836.

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Unwelcomed Guests With Master Keys: How Primate Lentiviruses Use Chemokine Receptors For Cellular Entry." Benhur Lee, U. of Pa. Cori Aud., 4565 McKinley Ave. 747-2630.

12:10 p.m. Physical therapy research seminar. "Total Hip Replacement: What the Surgeon Sees." Douglas D. Robertson Jr., asst. prof. of radiology, Mallinckrodt Inst. of Radiology. Classroom C, 4444 Forest Park Blvd. 286-1400.

4 p.m. Anesthesiology research seminar. "Designed, Synthetic Organic Compounds That Function as Non-reifying Sodium Channels in Phospholipid Bilayers." George Gokel, prof. of molecular biology and pharmacology. Room 5550 Clinical Sciences Research Bldg. 362-8560.

4 p.m. Anthropology Colloquium Series. "Species Diversity in Nocturnal Primates: A Multidisciplinary Approach." Simon Bearder, prof. of anthropology, Oxford U., England. Room 149 McMillan Hall. 935-5252.

4 p.m. Jewish and Near Eastern studies lecture. "Writing, Orality, and Revelation in Second Temple Judaism." Martin S. Jaffee, the Samuel and Althea Stroum Prof. of Jewish Studies and prof. of comparative religion, U. of Wash., Seattle. Women's Bldg. Lounge. 935-8567.

Wednesday, Feb. 23

8 a.m. Obstetrics and Gynecology Grand

'Jazz at Holmes' back with free concerts

The University's Jazz at Holmes Series is back this spring, presenting a sterling line-up of St. Louis jazz musicians in free concerts at Holmes Lounge.

The James Warfield Trio will perform Thursday, Feb. 17. Future performances will feature the Tom Rickard Trio Thursday, Feb. 24, the William Lenihan Quartet with Tom Kennedy March 15, the Linda Presgrave Quartet March 23 and the University's own InsideOUT April 6.

All concerts take place at 8:30 p.m. Thursdays and are free and open to the public. The series is sponsored by the College of Arts & Sciences, the Department of Music in Arts & Sciences, the Office of Student Activities and Campus Life.

For more information, call 935-4841.

Rounds. "Postmenopausal Osteoporosis." Meera R. Patel, chief resident, obstetrics and gynecology dept. Clopton Aud., 4950 Children's Place. 362-1016.

11 a.m. Assembly Series. "Beyond Breaking the Surface." Greg Louganis, Olympic diving champion and author. Graham Chapel. 935-5285. *See story on page 2.*

11 a.m. School of Law Public Interest Law Speakers Series. "International Justice in the 21st Century." Richard Dicker, assoc. counsel, Human Rights Watch, and chief International Criminal Court delegate for the Lawyers Committee for Human Rights. Anheuser-Busch Hall. 935-4958.

Noon. Geriatrics and gerontology lecture. David R. Sinacore, asst. prof. of physical therapy. Room 216 West Bldg. 362-3506.

3:45 p.m. Physics colloquium. "Electronic Energy Transfer in Light-harvesting Antennas of Photosynthetic Bacteria." Sergei Savikhin, Ames Laboratory-U.S. Dept. of Energy and chemistry dept., Iowa State U. Room 204 Crow Hall (coffee 3:30 p.m., Room 241 Compton Hall). 935-6276.

6:30 p.m. Ophthalmology and Visual Sciences Seminar Series. "Basics of Refractive Surgery." Stephen A. Wexler, asst. prof. of ophthalmology and visual sciences. East Pavilion Aud. 362-5722.

7:30 p.m. Catholic Student Center lecture. "How Do We Understand Sacred Scripture and Tradition?" The Rev. Gary Braun, dir., Catholic Student Center, and the Rev. Jeff Vomund, producer. Co-sponsored by the Student Union. Catholic Student Center. 935-9191.

Thursday, Feb. 24

Noon. Genetics lecture. "Genetic Interactions Coordinating Light and Hormone Signaling Pathways in Plants." Michael Neff, asst. prof. of biology. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

4 p.m. Chemistry lecture. "Designing Materials for Applications in Heavy Element Waste Remediation - Solids That 'Want and Waste Not.'" Peter K. Dorhout, prof. of chemistry, Colo. State U. Room 311 McMillen Lab (coffee 3:40 p.m.). 935-6530.

4:15 p.m. Philosophy colloquium. "Naturalism in the Philosophy of Mind." John McDowell, prof. of philosophy, U. of Pittsburgh. Room 216 Psychology Bldg. 935-6670.

4:30 p.m. Mathematics colloquium. Kevin Scannell, prof. of mathematics, Saint Louis U. Room 199 Cupples I Hall (tea 4 p.m., Room 200). 935-6726.

5 p.m. Vision Science Seminar Series. "Physiological Optics of Accommodation and Presbyopia in Humans and Monkeys." Adrian Glaser, asst. prof., College of Optometry, U. of Houston. 362-5722.

Friday, Feb. 25

Noon. Cell biology and physiology seminar. "Lysyl Oxidases: A Novel Amine Oxidase Family With Diverse Functions." Katalin Csizsar, Pacific Biomedical Research Center, U. of Hawaii. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

4 p.m. Anatomy and neurobiology seminar. "Neural Engineering: A Guide for Constructing Neural Circuits." Charles H. Anderson, research prof. of anatomy and neurobiology and of biomedical engineering. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

4 p.m. Hematology lecture. "Genetic Analysis of G Protein Signalling." Thomas J. Baranski, asst. prof. of medicine and of molecular biology and pharmacology. Room 8841 Clinical Sciences Research Bldg. 362-8801.

4 p.m. Mothers and Babies Research Center conference. "Placental Angiogenic Growth Factors (bFGF and VEGF) and Nitric Oxide Interactions." Ronald R. Magness, prof. of obstetrics/gynecology and animal sciences, U. of Wis., Madison. Schwarz Aud., First Floor Maternity Bldg. 747-0739.

Saturday, Feb. 26

11 a.m. University College Saturday Seminar Series. "From Liberty to Freedom: Reinventing the American Republic, 1830-1870." Robert C. Williams, prof. of history, Davidson College, N.C. Room 162 McDonnell Hall. 935-6778.

Music

Thursday, Feb. 17

8:30 p.m. Holmes Jazz Series. The James Warfield Trio. Holmes Lounge, Ridgley Hall. 935-4841. *See story on page 4.*

Saturday, Feb. 19

8 p.m. Senior recital. Music of Barber, Handel, Schumann, Poulenc and Still. Mark Kent, baritone, and Henry Palkes, piano. Graham Chapel. 935-4841.

Thursday, Feb. 24

8:30 p.m. Holmes Jazz Series. Tom Rickard Trio. Homes Lounge, Ridgley Hall. 935-4841.

Friday, Feb. 25

8 p.m. Jazz concert. InsideOUT, jazz quartet, Ben Looker, piano, David Taylor, drums, Jeff Lash, vibes, and Sean Wilhite, bass. Tietjens Hall. 935-4841.

Saturday, Feb. 26

4 p.m. Voice recital. Music of Mozart, Schumann, Menotti and Bernstein. Jane Seal and Mia Freis, sopranos. Graham Chapel. 935-5581.

Performances

Thursday, Feb. 17

8 p.m. Performing Arts Dept. play. "Hannah's Shawl." Henry I. Schvey, prof. and chair of Performing Arts Dept., author, and Anna Pileggi, dir. (Also Feb. 18, 19, 24, 25 and 26, same time, and Feb. 19 and 20, 3 p.m.) Cost \$10, \$8 WU faculty, staff, students and senior citizens. A.E. Hotchner Studio Theatre. 935-6543.

Saturday, Feb. 19

7 p.m. NADADADA Two performance art festival. School of Art students will perform. Cost: \$2, free to anyone dressed as an alternate ego. Forum for Contemporary Art, 3540 Washington Ave. 535-4660.

Saturday, Feb. 26

8 p.m. OVATIONS! "Ancestral Voices." Buffy Sainte-Marie, folksinger, and Ulali, a cappella trio. Cost: \$25. Edison Theatre. 935-6543.



Artists on the move With a little help from his friends, Philip Slein, MFA '96 (right, in the cowboy hat) moves into the School of Art's new University Lofts development Feb. 1. The downtown building, located at 1627 Washington Ave., provides living and working space for artists and has been marketed particularly to School of Art alumni.

'Hollywood heyday' on view in Feb. 17 exhibit

By LIAM OTTEN

Junior and senior fashion design students from the School of Art will present their latest couture creations this month at the school's annual "Gowns in the Gallery" exhibition.

The special one-night-only exhibition opens at 7 p.m. Thursday, Feb. 17, in the Des Lee Gallery, located downtown in the University Lofts, 1627 Washington Ave. The show is free and open to the public.

Senior designers will present evening gowns inspired by the glamorous "golden age" of Hollywood. Juniors will present ready-to-wear jackets inspired by the Saint Louis Art Museum's recent exhibition of masks. In all, more than a dozen designers will be on hand to discuss the finer points of their work, such as

'Gowns in the Gallery'

Where The Des Lee Gallery, 1627 Washington Ave., St. Louis

When 7 p.m. Feb. 17

Admission Free and open to the public

color choices and construction details.

"This is Hollywood in its heyday," said Jeigh Singleton, a well-known designer and head of the University's fashion design program. "This is the Hollywood of voluptuous beauties like Betty Grabel, back when movies had more conversation than explosions."

"Gowns in the Gallery" offers an early glimpse of clothes that will be seen later this year at the art school's 71st annual Fashion

Show, a full-blown Paris-style extravaganza of haute couture. The show will take place May 7 at the Saint Louis Galleria.

Singleton noted that both the full-scale fashion show and the more intimate gallery exhibition provide valuable, professional experience for young designers preparing to launch careers in the fashion industry. In particular, "Gowns in the Gallery" gives students an opportunity to discuss and promote their work on a face-to-face basis.

"Most people in the business talk about clothes more than they show clothes on models on the runway," Singleton explained. "Gowns in the Gallery" gives our students a chance to really explain the ideas and concepts behind their dresses."

For more information, call the art school at 935-6470.

Sports

Saturday, Feb. 26

6 p.m. Women's basketball vs. U. of Chicago. Athletic Complex. 935-5220.

8 p.m. Men's basketball vs. U. of Chicago. Athletic Complex. 935-5220.

And more...

Thursday, Feb. 17

11:30 a.m. Campus Y's Cultural Celebration. Dance exhibition. Shotokan

Karate Club, Barkada Filipino Club and Breakdancing Club. Green Chairs, Mallinckrodt Student Center. 367-3771.

8:30 p.m. Campus Y's Cultural Celebration. Dance lesson. Learn to dance salsa and merengue from Assoc. of Latin American Students and WU JIVE. Multipurpose Room A & B, Mudd House. 367-3771.

Friday, Feb. 18

11 a.m. Campus Y's Cultural Celebration. Language classes. Learn to write and speak in Korean, Japanese, Malay, Arabic. Green Chairs, Mallinckrodt Student Center. 367-3771.

Saturday, Feb. 19

8 a.m. Continuing Medical Education program. "Second Annual Update in the Management of Hypertension." Cost: \$55.

Eric P. Newman Education Center. To register, call 362-6891.

8:15 a.m. Continuing Medical Education program. "Breast Cancer Prevention: Incorporating New Data Into Clinical Practice." Co-sponsored by Discovery International, Deerfield, Ill. Frontenac Hotel, St. Louis (breakfast 7:30 a.m.). To register, call 635-8116.

Thursday, Feb. 24

8 a.m. Continuing Medical Education program. "Eighth Annual Refresher Course & Update in General Surgery." Cost: \$400 physicians; \$350 physicians in training, allied health professionals. Ritz-Carlton Hotel, St. Louis. (breakfast, 7:30 a.m.) To register, call 362-6891.

7:30 p.m. Feminist Reading Group meeting. Discussion of "The Power of Feelings" by Nancy Chodorow. Peggy Guest, lecturer in women's studies, will facilitate. Cohen Lounge, Room 113 Busch Hall. 935-5102.

Friday, Feb. 25

5 p.m. Creative Writing Program reading. Stephen Dunn, visiting poet, will read from his work. Co-sponsored by the English dept. Hurst Lounge, Room 201 Duncker Hall. 935-7130. *See story on page 2.*

7:30 p.m. Black History Month event. "Bidding for Bachelors and Bachelorettes." Charity fund-raiser sponsored by the Assoc. of Black Students. Gargoyle, Mallinckrodt Student Center. 935-5994.

Saturday, Feb. 26

8:15 a.m. Continuing Medical Education symposium. "An Update From the Seventh Conference on Retroviruses and Opportunistic Infections." William G. Powderly, prof. of medicine; Judith Aberg, asst. prof. of medicine; and Pablo Tebas, asst. prof. of medicine. Cost: \$20, free for WU faculty and staff. Marriott Pavilion Hotel, St. Louis. 362-2418.

10 a.m. Creative Writing Program panel discussion. Stephen Dunn, visiting poet; Deevin Johnson, poetry editor, The Chicago Review; Elaine Markson, literary agent; and Tim Bent, sr. editor, St. Martin's Press, will discuss publishing. Co-sponsored by the English dept. Hurst Lounge, Room 201 Duncker Hall. 935-7130. *See story on page 2.*

Lady Bears tie NCAA record

After picking up its 58th consecutive win Wednesday, Feb. 9, against Illinois College, 75-38, and 59th Friday, Feb. 11, against Case Western Reserve University, 78-58, the women's basketball team made history Sunday afternoon by beating the University of Rochester, 90-43, to tie the NCAA women's all-divisions winning streak record with its 60th-straight triumph. The Bears can top the mark Friday, Feb. 18, when they play at Carnegie Mellon University. The team, which improved to 22-0 on the year, also wrapped up at least a share of the University Athletic Association (UAA) title and the league's

automatic berth in the NCAA tournament. Junior Tasha Rodgers led all scorers with 22 points on 10-of-11 shooting, and senior Sue Tucker scored 15 points and pulled down a career-high 10 points. Against Case Reserve Friday, it was senior All-America center Alia Fischer leading the way as she poured in 24 points on 10-of-13 shooting.

Men hoopsters win

The men's basketball team won its fifth consecutive game Sunday, Feb. 13, and the Bears gave head coach Mark Edwards his 300th career victory with a 73-41 win over the University of Rochester. The Bears improved to 15-7, 8-4 in the UAA, where they took over sole possession of second place. The victory held individual significance for Edwards, now in

his 19th season leading the Bears program, who has posted a career record of 300-191. He is also the winningest coach in conference history with a 130-45 record in 12 seasons of league action. Alexander paced five Washington U. players in double figures and scored his 1,000th career point Friday, Feb. 11, in a 99-80 UAA victory over Case Western Reserve.

Tankers fourth

The men's and women's swimming and diving teams both finished in fourth place at the UAA Championships last week in Atlanta. The men finished with 540.5 points, moving up one spot from last year's fifth-place finish. Host Emory University won the event with 1,212 points, Johns Hopkins University was second

with 1,083 points, and Carnegie Mellon University was third with 761 points. The women finished just 15 points out of third place as the Bears' tallied 552 points and Case Western Reserve recorded 567. Emory completed the sweep as they scored 1,310 points in the women's contest.

Runners compete

Several Indoor track and field athletes posted solid performances at the Southern Illinois University Open Saturday, Feb. 12, in Carbondale, Ill. Senior Tim Julien took second in the 5,000 meters with a time of 15 minutes, 4.42 seconds. Fellow senior Claudine Rigaud also recorded a second place finish, running a 9.42 in the 60-meter high hurdles.

Sports Section



PAUL DISCHER

Making mini-motors Annie Neavill and Kate Theurer assemble motors from magnets, batteries, paper clips and wire at the annual "Women in Engineering Day" sponsored by the Society of Women Engineers here. Neavill and Theurer, students at Christian Outreach School in Hillsboro, Mo., were among more than 60 high school students on campus Feb. 5 for the event. The mini-motor assignment was devised by Paul Discher, supervisor of technical services in the Department of Electrical Engineering.

Young scientists

Program turns students on to careers in science

— from page 1

zoology. More than 9,000 computers users log on to the site every day, almost half of them from outside North America, with queries ranging from how ants walk on the ceiling to what makes the Earth rotate.

Since the YSP was started by M.D./Ph.D. students nine years ago, it has informed many underprivileged St. Louis kids about science. It has produced science fair stars and

inspired youths to pursue scientific careers. Thomas A. Woolsey, M.D., YSP faculty adviser, professor of anatomy and neurobiology, of cell biology and physiology and of neurology and neurological surgery and the Bishop Scholar in Neuroscience, attributes the program's success to extraordinary young people on both sides — exceptional Washington University students teaching inquisitive high school youths. "The kids see people not much older than they are who love what they do," he said.

The program is supported by the Howard Hughes Medical Institute through a \$325,000 grant.

Range of job skills covered in HR courses

Staff and administrators looking to improve their skills can get help in making meetings effective, learning strategies for handling stress and managing multiple priorities through the Training and Development Programs offered by the Human Resources Department.

Courses on these topics are among the new offerings for the 2000 spring/summer session. Another new offering is the 360-degree Management/Leadership Development Workshop, in which managers, directors and administrators can get feedback on their management and leadership competencies from supervisors and peers.

"Self-examination requires courage but is an essential step for all managers and leaders," said Richard L. Jouett, director of training and human resource development. "The course is not a performance evaluation, but a confidential way of looking at your abilities and how you interact with others, then learning how to use the feedback."

In addition to the numerous courses offered here are programs in management development. These off-campus programs are offered through AAIM Management Association, a partnership of hundreds of St. Louis businesses

and organizations, including the University. A sampling of courses in the programs includes "Advanced Presentation Skills," "Managing Diversity in the Workplace," "Projecting a Professional Image" and "Interviewing and Hiring for Supervisors."

These opportunities are available to all employees of the Hilltop, Medical and West campuses. And, in addition to the courses, the division will work

one-on-one with employees and is available to provide customized departmental workshops. While some courses are free, others require a fee to be paid by the employee's department. Before registering, employees should consult with their supervisors.

The course catalog recently was mailed to all employees. If you did not receive one or would like more information, call 935-6970. The catalog is also available on-line at <http://hr.wustl.edu/>.

'Theater and Holocaust' lecture set

Holocaust expert Robert Skloot, professor of theater and drama and Jewish studies at the University of Wisconsin, Madison, will speak on "The Theater and the Holocaust" at 4 p.m. Thursday, Feb. 17, for the Performing Arts Department (PAD) in Arts & Sciences. The lecture takes place in the Formal Lounge of the Ann W. Olin Women's Building.

Skloot has published numerous articles on modern theater and drama and is author of "The Darkness We Carry: The Drama of the Holocaust" (1988). In addition, he edited the collection "The Theater of the Holocaust" (1999), for which he wrote

an introduction. He has won numerous teaching awards and three Fulbright lectureships to Israel, Austria and Chile.

Skloot's visit comes in conjunction with the Thursday, Feb. 17, opening of "Hannah's Shawl" by Henry I. Schvey, Ph.D., professor and chair of the PAD, which deals with the legacy of the Holocaust. For more information about the play or for tickets, call 935-6543.

The lecture is co-sponsored by the PAD, the Jewish and Near Eastern Studies Department in Arts & Sciences and the St. Louis Holocaust Museum.

For more information, call 935-5858.

Proposals

WU students help craft national platform

— from page 1

eligibility;

- Increased federal research support;
- Enhanced tax incentives for graduate and professional students, including exemptions for employer-provided educational benefits and the tuition portions of scholarships, fellowships and grants;
- A new position in the U.S. Department of Education's Office of Postsecondary Education for a graduate and professional education coordinator, charged with promoting and supporting graduate and professional studies; and

• Affordable health care coverage for graduate and professional students, post-docs and research assistants and fellows.

For international students, the platform seeks increased flexibility in work and travel restrictions and permitting

students to transfer without affecting their visas. Another resolution supports the right of legal immigrants to pursue graduate studies and to benefit from federal student aid programs.

Responding to efforts in some states to divert higher education funding to primary and secondary schools threatened by reduced revenues, the NAGPS agenda argues that education at all levels must be "adequately and equitably funded."

The NAGPS went to Washington this week because the annual budgetary process is now getting under way. "During the early stages of the federal appropria-

tions process," Williams said, "NAGPS feels that it is imperative to contact our national representatives and express our interest in future legislative proposals."

The NAGPS was founded in 1986 to improve the quality of graduate and professional student life. Its national office and regional networks also serve as a clearinghouse for information and resources.

GPC coordinates the appointment of graduate and professional student representatives to a variety of University committees and panels, concerned with issues ranging from the academic calendar to parking to campus safety.

Links

Medical Center walkways detour during construction

— from page 3

Parkview Place and the covered walkway and stairs from 7 p.m. to 7 a.m., and the bike patrol will continue its normal coverage of the area.

Third, on April 3, the link over Forest Park Avenue that connects the Forest Park Garage with Barnes-Jewish Hospital North will be rerouted into the Waldheim Ambulatory Care Building. The link currently leads into the remaining section of the old Barnes-Jewish Hospital North

Garage, which must be demolished for construction of the Ambulatory Care Building. Construction of a temporary detour into the Waldheim Building will begin in March.

The new temporary route will enter the fourth floor of the Waldheim Building via stairs from the current link. This temporary bridge will not be accessible to wheelchairs or carts. The elevators in the Waldheim Building will provide access to Barnes-Jewish Hospital north. The permanent link, which will be built into the Ambulatory Care Building, is expected to be completed in September.

For additional information, call the Campus Integration construction hot line at 953-1970.

Employment

Use the World Wide Web to obtain complete job descriptions. Go to cf6000.wustl.edu/hr/home (Hilltop) or medicine.wustl.edu/wumshr (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Reading Specialist (part time) 980130

Medical Science Writer 980189

Assistant Dean and Academic Coordinator 990210

Manager 990233

Gift Accountant 990244

Director/Executive Faculty Liaison 990280

Administrative Assistant 990362

Engineering Librarian 990364

Counselor 000014

Systems Programmer I 000034

Regional Director of Development 000057

Administrative Secretary 000065

Assistant Dean and Academic Coordinator 000093

LAN Engineer 000094

Library Assistant 000099

Insurance Assistant 000101

Secretary/Technical Typist (part time) 000102

Rare Books Curator 000107

Secretary 000109

Head of Access 000116

Assistant University Webmaster 000118

Administrative Assistant (part time) 000125

Associate Director of Development 000128

Interlibrary Loan Assistant 000143

Supervisor, Help Desk and E-mail Administration 000144

Assistant Director, Management Systems 000149

Departmental Accountant 000157

Assistant Financial Analyst (part time) 000158

Administrative Coordinator 000160

Library Technical Assistant for Islamic Studies 000162

University Web Editor 000164

Customer Services Representative (part time) 000165

Lab Technician III 000167

Lab Technician III 000168

Administrative Aide/Environmental Engineering 000169

Unix Systems Administrator 000171

Financial Analyst 000172

Departmental Secretary 000175

University Communications Secretary 000180

Computer Lab Supervisor 000182

Switchboard Operator (part time) 000184

Accountant 000185

Administrative Assistant 000186

LAN PC Support Specialist 000187

Communications Technician I 000188

Researcher 000190

Research Assistant 000191

Payroll Services Representative 000193

Field Station Manager 000194

Department Secretary (part time) 000197

Library Technical Assistant (serials) 000198

Data Entry Operator 000199

Genetics Research Technician 000200

Administrative Assistant 000201

Oilier 000202

Seismic Data Analyst (part time) 000203

Campus Visit Assistant 000204

Assistant Graphic Designer 000206

Library Technical Assistant 000207

Lab Technician 000208

Department Secretary 000209

Researcher 000212

Senior Associate, Center for the Application of Information Technology 000213

Construction Accounting Assistant II 000214

Faculty Assistant 000215

Production Coordinator 000216

Fixed Asset Accountant 000219

Accountant 000220

Lab Technician (part time) 000221

Assistant Director of Admissions 000224

Administrative Aide 000225

Medical Campus

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Medical Campus

Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Research Technician II 000686

Clinical Research Coordinator 000837

Administrative Secretary III 000988

Patient Services Representative 001049

Insurance Billing and Collections Assistant II 001056

Clinical Nurse Coordinator 001158

Secretary III/ Education Coordinator 001177

Secretary I 001212

Insurance Billing and Collections Assistant II 001226

Medical Assistant II 001229

Secretary II 001230

Campus Watch

The following incidents were reported to University Police from Feb. 7 – Feb. 13. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

Feb. 9

9:38 p.m. — A student reported the theft of his auto from a South 40 parking lot sometime after 2 a.m. Feb. 6.

Feb. 10

11:47 a.m. — A student reported the theft of a videocassette recorder, a stereo receiver and a red lacrosse equipment bag. The total loss was \$560.

Feb. 11

4:32 a.m. — Two students smoking marijuana in their

Lien Residential House room set off the fire alarm.

Feb. 12

2:31 p.m. — A student referee at an intramural basketball game was struck by a student player who disagreed with the referee's call on a play.

University Police also responded to four additional reports of theft, an additional auto theft, five reports of vandalism, two reports of telephone harassment, one bike theft, one peace disturbance and one traffic violation.

Notables

Beata Grant receives Governor's Award for Excellence in Teaching

Beata Grant, Ph.D., associate professor of Chinese and chair of the Department of Asian and Near Eastern Languages and Literatures in Arts & Sciences, has received a 1999 Governor's Award for Excellence in Teaching from the Coordinating Board for Higher Education, a state policy board that oversees the Missouri Department of Higher Education.

Grant teaches a range of literature, religion and culture courses. One of her most popular courses, "Introduction to Asian Religions," takes students on a whirlwind tour of the major

religious traditions of India, China and Japan. She also offers an introductory course on Buddhism in the various cultures of Asia and courses on

Grant: Teaches literature, religion

religion and gender in Chinese literature and culture.

Grant received the award at a statewide higher education planning conference held late last year. The awards have been presented annually to an outstanding faculty member from each of about 50 public and independent colleges and universities in Missouri. Award criteria generally include effective teaching and advising at the undergraduate level; service to the campus community; commitment to high standards of excellence; success in nurturing student achievement; and impact on academic and personal lives of students.

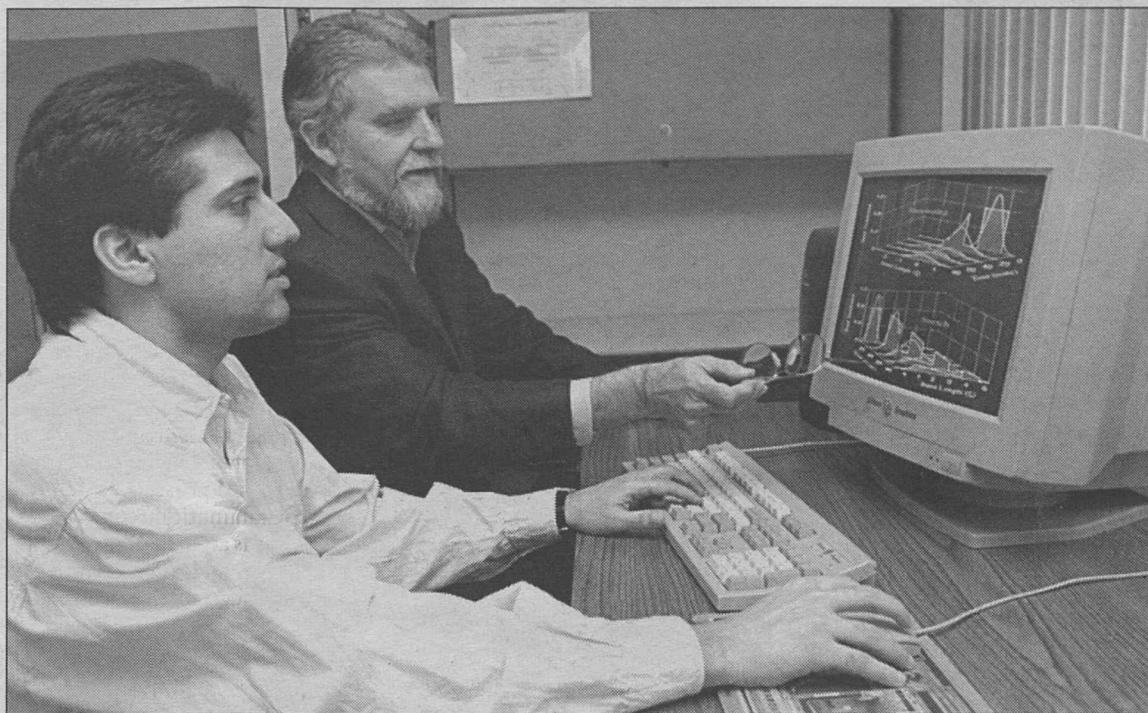
"Professor Grant fills all the (teaching award) criteria and

more," said Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences. "Her teaching has been enormously important to a great number of our students. The course she has developed on the religions of Asia is not only fundamentally important in developing an understanding of Asian language, literature and culture; it has also proved to be very popular — a testimony to her knowledge and skill, as well as to the significance of the subject matter."

Macias added that Grant also has done a superb job of leading the large and complex Asian and Near Eastern languages and literatures department and has been instrumental in looking for ways to connect the department to other areas in Arts & Sciences.

Grant received a bachelor's degree in Oriental studies in 1976 from the University of Arizona, a master's degree in Chinese in 1981 from Stanford University and a doctorate in Chinese in 1987, also from Stanford. A member of the faculty here since 1988, she became an associate professor in 1995 and departmental chair in 1998.

Always interested in the intersection of religion and literature, Grant focused her dissertation on the Buddhist writings of a Song dynasty literary giant named Su Shi. Her research, which required two years in Beijing, was eventually published in 1994 as her first book, "Mount Lu Revisited: Buddhism in the Life and Writings of Su Shi (1037-1107)." Her research continues to explore the poetry and other writings of 18th-century Chinese Buddhist nuns and laywomen, reconstructing their lives and writings and bringing back to life their letters, poems and sermons.



DAVID KILPER

George Zahalak, Eng., ScD. (right), professor of mechanical engineering and biomedical engineering, and Afshin Shiravi, an electrical engineering graduate student, observe the output of the "Huxley-Zahalak Equation," which models mathematically the interaction between the proteins actin and myosin, the basis for the contraction of skeletal muscle and other tissues. Zahalak has been recognized for his role in the equation in a recently published book on muscle mechanics.

Zahalak

Authors name equation for faculty member here
— from page 1

they appended my name holds for arbitrary, time-varying conditions."

Put simply, the "Huxley-Zahalak Equation" models quantitatively the interaction between the proteins actin and myosin; this interaction is the basis for the mechanical work of skeletal muscle and other tissues.

Zahalak said that he uses the equation in a simplified form in an undergraduate biomedical engineering course in quantitative physiology; graduate students get a more extensive discussion of it in a course focusing on muscle

mechanics and contractility. He will introduce the equation this spring in a new course on cell and tissue engineering that he is teaching with Elliot L. Elson, Ph.D., professor of biochemistry and molecular biophysics.

Huxley has an impressive lineage. His grandfather was Tomas Henry Huxley, who was the most prominent defender of Charles Darwin and the theory of evolution during Victorian times. And he is the half-brother of Julian Huxley, a famous English biologist, and writer and author Aldous Huxley.

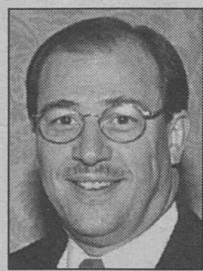
The association with Huxley in the equation is gratifying for Zahalak, who has been a faculty member here since 1976.

"Recognition of one's contributions is the coin of the realm in academic science and engineering," Zahalak said. "It's a substitute for stock options or medals in other professions. I don't know to what extent other members of the muscle mechanics research community associate this equation with my name, but perhaps the publicity arising from the book may help the connection to catch on."

News Analysis

News Analysis contains excerpts from the For Expert Comment service. The service, which provides timely faculty comments to media across the country, is distributed by the Office of University Communications.

Medical insurers should pay for clinical trials of experimental cancer treatments, Eberlein says



In Missouri and in most states, the cost of cancer clinical trials is borne by pharmaceutical companies,

the federal government or patients and their families.

Timothy J. Eberlein, M.D., director of The Alvin J. Siteman Cancer Center at Barnes-Jewish Hospital and the School of Medicine, argues that medical insurers in Missouri should follow the example recently set in New Jersey and some other states and voluntarily cover cancer clinical trials.

"As a surgeon who has spent more than 20 years caring for cancer patients, I was encouraged to hear of the recent commitment by some medical insurers to pay for clinical trials of experimental cancer treatments," Eberlein said. "Here's why.

"Virtually every improvement in cancer care during the last several years, from improved therapy combinations

for testicular cancer to new chemotherapy combinations for acute leukemia to better surgical options for breast cancer, has resulted from clinical trials. Without them, advances in cancer care would grind to a halt.

"Imagine if the computer industry had decided a decade ago to stop investing in new technologies, and we had to manage with the computers of yesterday or without the Internet," he said. "When patients' lives hang in the balance, the scenario becomes much more tragic.

"Nationally, only about 3 percent of adults with cancer participate in clinical trials," he continued. "The percentage is significantly higher here at The Alvin J. Siteman Cancer Center, yet some eligible patients cannot gain the funding to participate.

"I would encourage the Missouri Association of Health Plans to embrace the need for cancer-trial coverage," Eberlein emphasized. "The benefits of clinical trial participation become clear when you consider our progress against childhood cancers in recent decades. More than 95 percent of children with cancer in the United States now participate in these trials. As a

result, 80 percent likely will survive compared to a 20 percent survival rate 25 years ago.

"In addition, clinical trials often lead to dramatically reduced overall costs," he said. "Twenty years ago, for example, women with breast cancer routinely received mastectomies, resulting in hospitalizations of up to two weeks. Today, such patients frequently are treated as outpatients using new treatment options that proved their worth in clinical trials. Similarly, patients with leukemia now benefit from protocols for high-dose chemotherapy that have improved survival while markedly reducing insurers' costs.

"By supporting carefully designed clinical trials that minimize patient risks, the Missouri Association of Health Plans would make a bold statement," Eberlein concluded. "State medical insurers would initially share the financial burden for cancer clinical trials. However, the long-term reward — improved care that can add years to peoples' lives — is a goal that we should not compromise."

Campus Authors

Adrian Luchini, associate professor of architecture

Contemporary World Architects: Adrian Luchini

(Rockport Publishers Inc., 1999)

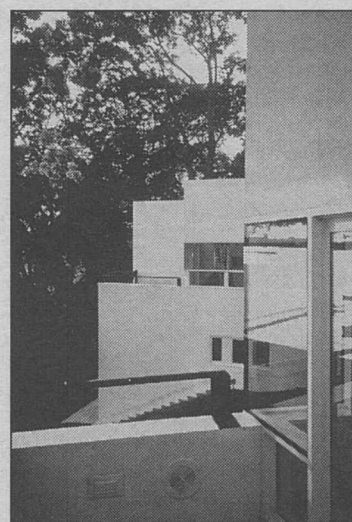
Adrian Luchini's drawings, models and photographs of his built and unbuilt work are featured in the latest "Contemporary World Architects" monograph. The juried library series is dedicated to presenting "new architectural talent from around the world" focusing on "emerging architects destined to be at the forefront of architecture in the next decade."

The book highlights 17 architectural projects by Luchini, director of architectural design at Sverdrup Facilities in St. Louis, and includes a foreword by noted architect Enric Miralles.

Luchini's international work ranges from a series of residences, each with their own distinct character, interaction with the landscape and sense of form in motion, to a Buenos Aires art museum with translucent, ethereal outer walls and an overall horizontal emphasis symbolizing the South American devotion to the land.

All of Luchini's projects underscore what architect Lauren Kogod refers to in the book's introduction as Luchini's "persistent attempt to create space out of expressive and almost physically gestural lines... a nervous or taut bundle of individual lines (that) coalesces into spatial figures and conjures spaces with ephemeral boundaries simultaneously from air and in air."

Luchini notes: "I draw what has shaped me, from the early days, full of dust in Argentina to



BALAZAR KORAB

This image from the cover of the monograph on Luchini's work depicts the Piku residence in Orchard Lake, Mich.

the cacophony of adulthood in the United States. From the simplicity of an implacable horizon line...to the protocols of a profession increasingly confusing, and more and more difficult — a cartography of pure desire and constant resistance."

The book includes Luchini's design work in the St. Louis region, such as the Maritz-Starek residence in the Central West End; interior for the KDNL (Channel 30) downtown offices and studio; renovation and new exterior for the Sixth Church of Christ, Scientist in Baden; World Omni Building corporate facility in the Riverport area; and a multi-modal facility, at the south end of the Kiel Auditorium.

Washington People



Assistant Dean for Management Services Denise A. McCartney leads a meeting of medical school managers.

A zest for life, work and laughter

Denise A. McCartney, plucky problem solver, applies keen mind and lively humor to medical management

By DIANE DUKE WILLIAMS

Denise A. McCartney, assistant dean for management services at the School of Medicine, is a plucky solution seeker who thrives on coming up with creative approaches to problems.

"If I have a situation and I don't know where to go, I go to Denise," said Edwin K. Hinrichs, executive director of anesthesiology. "She also is a great sounding board. She comes back to you with very thoughtful ideas and questions."

Known for her dedication and resourcefulness, McCartney finds no problem too small or too grand to tackle. Her colleagues say she takes an employee inconvenience just as seriously as, for instance, working with department heads to implement a new faculty compensation system, one of her latest projects.

She also is known for her sense of humor and ability to find the lighter side of almost any situation. "There's never a time that I interact with her without having a laugh," said Beverly Hahn, executive director of the Department of Pediatrics, who has worked with McCartney for about 10 years.

McCartney has administrative

responsibility for human resources, research administration and performance improvement. She also functions as a liaison between department heads and the central administration.

Lee F. Fetter, associate dean for administration and finance and McCartney's boss, said McCartney is a consummate team player who serves as an example to other employees. "Her tireless devotion to the University's mission, her strong service ethic and her ever-present optimism are inspiring to those of us fortunate to interact with her on a regular basis."

McCartney said she enjoys working with such a large cast of customers — department heads, business managers, administrators and faculty. In addition to acting as a liaison, McCartney spends a great deal of time building consensus and writing policies. She enjoys delving into the rules and regulations that will affect policies and looking at other universities' approaches. And she delights in the intellectual discussion that goes into these decisions.

One of the most difficult parts of McCartney's job, however, is deciding where priorities lie.

"There are so many things going on, and they're all really interesting," she said. "Everyone has so much excitement about what they're trying to get done that sometimes it's a little hard to know where to go first."

Life is an adventure

McCartney's father, who worked for Southwestern Bell, and her mom, a full-time parent, taught McCartney and her brother and sister that life is an adventure. "They were big believers in having fun and trying out different experiences," she said. "They also emphasized personal independence and community involvement."

The family moved 12 times in Oklahoma by the time McCartney was 14, then to Berkley Heights, N. J., and eventually to St. Louis. But it didn't deter them from

becoming involved in their new communities. Whenever her family moved to a new town, they did volunteer work and joined a local church. "We were always taught to give back," McCartney said.

McCartney became interested in science as a child. Her mother had wanted to become a laboratory researcher and often talked to McCartney about the field. After McCartney earned a bachelor's degree in medical technology from the University of Missouri-Columbia in 1978 and worked for six months as a medical technologist, she decided to get a master's degree in business administration. She wanted to direct a hospital laboratory.

Four weeks before getting married in 1980, McCartney fell off the roof of her house when she was cleaning the gutters. She woke up in the hospital paralyzed from the waist down. "It was a very stressful time," she said. "With spinal cord injuries, it's almost as devastating for the family and friends as it is for the person affected by it. It changes everyone's perspective of what the person's life is going to be like."

She and her fiancé postponed their wedding and later parted ways. She said they were both too young to figure out how to handle her injury.

Within six months, McCartney returned to her job in a blood bank. A year after the accident, she re-enrolled in graduate school. When she graduated, she landed a job as a supervisor at Barnes Hospital and later became laboratory manager of the Laboratory Services Department there.

"After you go through an accident like mine, you really do make a choice," McCartney said. "You can feel sorry for yourself or realize that you're pretty lucky. I saw people in rehabilitation who were injured much worse than I was and had fewer options."

In 1989, McCartney was hired as the Irene Walter Johnson (IWJ) Rehabilitation Institute business manager, a joint position between the

School of Medicine and Barnes Hospital. At the time, the IWJ provided all the inpatient and outpatient physical, occupational and speech therapy for Barnes and St. Louis Children's hospitals. She worked there until becoming assistant dean for management services at the medical school in 1993.

McCartney has not let her disability limit her life — she likes to tell people she can do everything but walk.

"One of my favorite things about Denise is that nothing stops her," said Joan M. Podleski, assistant vice chancellor for clinical affairs and also a personal friend of McCartney. "If an obstacle gets in her way or makes life more difficult, she finds a way to get around it. I think she is strong in ways that many people aren't."

Undaunted courage

Several times a week, McCartney rides a bike for exercise and recreation. An attachment hooks to her wheelchair, allowing her to use her arms to propel the bike. She rides it in her neighborhood, on the Katy Trail, on the Great River Road and at Creve Coeur Lake. She plays golf with shortened clubs, swims, gardens, reads and loves to spend time with her niece and nephews, who live in St. Louis. An avid traveler, she aims to make it to all 50 states.

She also teaches a Sunday School class for 3-year-olds, plays in the handbell choir and serves on several committees at Manchester United Methodist Church.

For a number of years after her injury, she made spinal cord injury awareness presentations at area high schools, helping students understand the risks of drinking and driving and of not wearing car seat belts or bike helmets. She also has participated in disability awareness programs at churches and at the medical school.

"The thing that guides me most in my life is providing service or support to people," McCartney said. "Every day when I leave my job, I feel as if I've contributed something."



Indulging a love of travel, McCartney visits Disney World's Magic Kingdom with nephews (from left) Brian and Nick and her brother-in-law and sister, Vince and Karen Loyal.

Denise A. McCartney

University position Assistant dean for management services, School of Medicine

Education BS, MBA, University of Missouri-Columbia

Community activities Sunday school, handbell choir, disability awareness presentations

Sports Cycling, golf, swimming

Other hobbies Gardening, reading, traveling, family time